This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

- Claim 1. (Previously Presented) A method of decreasing intraocular pressure or improving ocular accommodation in an animal, including a human, comprising administering
 - (A) an effective amount of a cholinergic agent; and
 - (B) an effective amount of a compound of the formula I:

wherein

 \mathbf{a} . \mathbf{R}^1 and \mathbf{R}^2 are

1. independently selected from hydrogen, acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, (C₁-C₃)alkylenedioxy, allyl, amino, ω-alkylenesulfonic acid, carbamoyl, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, hydroxy, (C₂-C₆)hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, alkylsulfonyl, alkylsulfinyl, alkylthio, trifluoromethyl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, 4-[C₆ or C₁₀]arylpiperazin-1-yl, Ar, wherein, consistent with the rules of aromaticity, Ar is C₆ or C₁₀ aryl or a 5- or 6-membered heteroaryl ring, wherein 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring can be fused to a benzene, pyridine, pyrimidine, pyridazine, pyrazine, or (1,2,3)triazine, wherein the ring fusion is at a carbon-carbon double bond of Ar, Ar-alkyl, Ar-O, ArSO₂-, ArSO-, ArS-, ArSO₂NH-, ArNH, (N-Ar)(N-alkyl)N-, ArC(O)-, ArC(O)NH-, ArNH-C(O)-, and (N-Ar)(N-alkyl)N-C(O)-, or together R¹ and R² comprise methylenedioxy; or

- 2. together with their ring carbons form a C₆- or C₁₀- aromatic fused ring system; or
- 3. together with their ring carbons form a C₅-C₇ fused cycloalkyl ring having up to two double bonds including any fused double bond of the -olium or -onium containing ring, which

- cycloalkyl ring can be substituted by one or more of the group consisting of alkyl, alkoxycarbonyl, amino, aminocarbonyl, carboxy, fluoro, or oxo substituents; or
- 4. together with their ring carbons form a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring may be optionally substituted with one or more 1-pyrrolidinyl-, 4- $[C_6$ or C_{10}]arylpiperazin-1-yl, 4- $[C_6$ or C_{10}]arylpiperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, halo or (C_1-C_3) alkylenedioxy groups; or
- 5. together with their ring carbons form a five to eight membered heterocycle, wherein the heterocycle consists of ring atoms selected from the group consisting of carbon, nitrogen, and $S(O)_n$, where n=0,1, or 2;

b. Z is

- 1. hydrogen, alkyl, Ar-CH₂;
- 2. a group of the formula -NR³R⁴, wherein R³ and R⁴ may be independently hydrogen, alkyl, Ar, or Ar-alkyl-;
- 3. a group of the formula -CH(OR¹¹)R¹², wherein R¹¹ is hydrogen, methyl, ethyl or CH₃C(O)-; and R¹² is $[C_1$ to C_6 alkyl, Ar, or CO_2R^{13} wherein R¹³ is hydrogen methyl or ethyl;
- 4. a group of the formula $-C(CO_2R^{13})(OR^{11})R^{12}$;
- 5. a group of the formula -CH₂WAr, wherein W is -(C=O)- or -S(O)n- where n=1 or 2; or
- 6. a group of the formula $-CH_2C = C-R^{14}$, wherein R^{14} is (C_1-C_6) alkyl;

c. Y is

- 1. amino, or
- 2. a group of the formula -CH(R⁵)-R⁶ wherein
 - (a) R^5 is hydrogen, alkyl-, cycloalkyl-, alkenyl-, alkynyl-, aminoalkyl-, dialkylaminoalkyl-, $(N-[C_6 \text{ or } C_{10}] \text{aryl})(N-\text{alkyl}) \text{aminoalkyl-, piperidin-1-ylalkyl-, 1-pyrrolidinylalkyl,}$ azetidinylalkyl, 4-alkylpiperazin-1-ylalkyl, 4-alkylpiperidin-1-ylalkyl, 4- $[C_6 \text{ or } C_{10}] \text{arylpiperazin-1-ylalkyl,}$ azetidin-1-ylalkyl, morpholin-4-ylalkyl, thiomorpholin-4-ylalkyl, piperidin-1-ylalkyl, $[C_6 \text{ or } C_{10}] \text{arylpiperidin-1-ylalkyl,}$ independently the same as R^6 ;
 - (b) R^6 is
 - (1) hydrogen, alkyl, which can be substituted by alkoxycarbonyl, alkenyl, alkynyl, cyano- or Rs, wherein Rs is a C_6 or C_{10} aryl or a heterocycle containing 4-10 ring atoms

- of which 1-3 are heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur; or
- (2) a group of the formula $-W-R^7$, wherein R^7 is alkyl, alkoxy, hydroxy or Rs, wherein W is -C(=O)- or $-S(O)_n$ where n=1 or 2;
- (3) a group of the formula -W-OR⁸ wherein R⁸ is hydrogen or alkyl;
- (4) a group of the formula -CH(OH)Rs; or
- (5) a group of the formula -W-N(R⁹)R¹⁰, wherein
 - [a] R⁹ is hydrogen and R¹⁰ is an alkyl or cycloalkyl, optionally substituted by
 - (i) $[C_6 \text{ or } C_{10}]$ aryl, or
 - (ii) a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, said heteroaryl ring can be optionally substituted with one or more 1-pyrrolidinyl, 4-[C_6 or C_{10}]arylpiperazin-1-yl, 4-[C_6 or C_{10}]arylpiperidin-1-yl, azetidin-1-yl, and morpholin-4-yl, thiomorpholin-4-yl, piperidin1-yl, halo or $(C_1$ - C_3)alkylenedioxy groups, or fused to a substituted phenyl or pyridine ring, wherein the ring fusion is at a carbon-carbon double bond of the heteroaryl ring, or
 - (iii) a heterocycle containing 4-10 ring atoms of which 1-3 are heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur; or
 - [b] R⁹ is hydrogen or lower alkyl and R¹⁰ is Ar; or
 - [c] R⁹ is hydrogen or lower alkyl, and R¹⁰ is a heterocycle containing 4-10 ring atoms of which 1-3 are heteroatoms are selected from the group consisting of oxygen, nitrogen and sulfur, said heterocycle; or
 - [d] R⁹ and R¹⁰ are both alkyl groups; or
 - [e] R^9 and R^{10} together with N form a heterocycle containing 4-10 ring atoms which can incorporate up to one additional heteroatom selected from the group of N, O or S in the ring, wherein the heterocycle is optionally substituted with (C_6 -or C_{10})aryl, (C_6 -or C_{10})arylalkyl, or a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each such heteroaryl can be optionally substituted with one

or more 1-pyrrolidinyl, 4-[C_6 or C_{10}]arylpiperazin-1-yl, 4-[C_6 or C_{10}]arylpiperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, halo or (C_1 - C_3)alkylenedioxy; or [f] R^9 and R^{10} are both hydrogen; or

- d. Q is N, O or S;
- e. M is absent when Q is O or S;
- f. M is alkyl, vinyl or allyl, or independently the same as Y; and
- g. X is a pharmaceutically acceptable anion, or
- (C) a pharmaceutically acceptable salt of the compound,

wherein aryl or Ar can be substituted with, in addition to any substitutions specifically noted, one or more substituents selected from the group consisting of acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, (C_1-C_3) alkylenedioxy, alkylsulfonyl, alkylsulfinyl, ω -alkylenesulfonic acid, alkylthio, allyl, amino, ArC(O)-, ArC(O)NH-, ArO-, Ar-, Ar-alkyl-, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, trifluoromethyl, hydroxy, (C_2-C_6) hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, 1-pyrrolidinyl, 4-[C₆ or C₁₀]arylpiperazin-1-yl-, 4-[C₆ or C₁₀]arylpiperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl; and

wherein heterocycles, except those of Ar, can be substituted with, in addition to any substitutions specifically noted, acylamino, alkanoyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, alkylsulfonyl, alkylsulfinyl, alkylthio, amino, ArC(O)-, ArO-, Ar-, carboxy, dialkylamino, fluoro, fluoroalkyl, difluoroalkyl, hydroxy, mercapto, sulfamoyl, or trifluoromethyl.

Claim 2. (Previously Presented) The method of claim 1, wherein Y is according to formula -CH(R⁵)R⁶.

Claim 3. (Cancelled).

Claim 4. (Previously Presented) The method of claim 1, wherein Y is according to formula -CH(R⁵)-W-Rs.

Claims 5-7. (Cancelled).

Claim 8. (Previously Presented) The method of claim 1, wherein

a. R¹ and R² are

- 1. independently selected from hydrogen, acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, (C_1-C_3) alkylenedioxy, allyl, ω -alkylenesulfonic acid, carbamoyl, carboxy, carboxyalkyl, cycloalkyl, halo, hydroxy, (C_2-C_6) hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, alkylsulfonyl, alkylsulfinyl, alkylthio, trifluoromethyl, Ar, wherein, consistent with the rules of aromaticity, Ar is C_6 or C_{10} aryl or a 5-or 6-membered heteroaryl ring, wherein 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring can be fused to a benzene, pyrimidine, pyridazine, pyrazine, or (1,2,3)triazine, wherein the ring fusion is at a carbon-carbon double bond of Ar, Ar-alkyl, Ar-O, ArSO₂-, ArSO-, ArS-, ArSO₂NH-, ArNH, (N-Ar)(N-alkyl)N-, ArC(O)-, ArC(O)NH-, ArNH-C(O)-, and (N-Ar)(N-alkyl)N-C(O)-; or
- 2. together with their ring carbons form a C₆- or C₁₀- aromatic fused ring system; or
- 3. together with their ring carbons form a C₅-C₇ fused cycloalkyl ring having up to two double bonds including any fused double bond of the -olium or -onium containing ring, which cycloalkyl ring can be substituted by one or more of the group consisting of alkyl, alkoxycarbonyl, aminocarbonyl, carboxy, fluoro, or oxo substituents; or
- 4. together with their ring carbons form a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring may be optionally substituted with one or more halo or $(C_1 C_3)$ alkylenedioxy groups; or
- 5. together with their ring carbons form a five to eight membered heterocycle, wherein the heterocycle consists of ring atoms selected from the group consisting of carbon, nitrogen, and $S(O)_n$, where n=0, 1, or 2;

b. Z is

1. hydrogen, alkyl, Ar-CH₂;

- 2. a group of the formula -NR³R⁴, wherein R³ and R⁴ may be independently hydrogen, alkyl, Ar, or Ar-alkyl-;
- 3. a group of the formula -CH(OR¹¹)R¹², wherein R¹¹ is hydrogen, methyl, ethyl or CH₃C(O)-; and R¹² is [C₁ to C₆]alkyl, Ar, or CO₂R¹³ wherein R¹³ is hydrogen methyl or ethyl;
- 4. a group of the formula $-C(CO_2R^{13})(OR^{11})R^{12}$;
- 5. a group of the formula -CH₂WAr, wherein W is -(C=O)- or -S(O)_n- where n=1 or 2; or
- 6. a group of the formula $-CH_2C = C-R^{14}$, wherein R^{14} is (C_1-C_6) alkyl;

c. Y is

- 1. amino, or
- 2. a group of the formula -CH(R⁵)-R⁶ wherein
 - (a) R⁵ is hydrogen or alkyl;
 - (b) R^6 is
 - (1) hydrogen, alkyl, which can be substituted by alkoxycarbonyl, alkenyl, alkynyl, cyano- or Rs, wherein Rs is a C_6 or C_{10} aryl or a heterocycle containing 4-10 ring atoms of which 1-3 are heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur; or
 - (2) a group of the formula $-W-R^7$, wherein R^7 is alkyl, alkoxy, hydroxy or Rs, wherein W is -C(=O)- or $-S(O)_n$ where n=1 or 2;
 - (3) a group of the formula -W-OR⁸ wherein R⁸ is hydrogen or alkyl;
 - (4) a group of the formula -CH(OH)Rs; or
 - (5) a group of the formula -W-N(R⁹)R¹⁰, wherein
 - [a] R^9 is hydrogen and R^{10} is an alkyl or cycloalkyl, optionally substituted by (i) $[C_6$ or C_{10}]aryl, or
 - (ii) a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, said heteroaryl ring can be optionally substituted with one or more halo or (C₁-C₃)alkylenedioxy groups, or fused to a substituted phenyl, or (iii) a heterocycle containing 4-10 ring atoms of which 1-3 are heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur; or
 - [b] R⁹ is hydrogen or lower alkyl and R¹⁰ is Ar; or

- [c] R⁹ is hydrogen or lower alkyl, and R¹⁰ is a heterocycle containing 4-10 ring atoms of which 1-3 are heteroatoms are selected from the group consisting of oxygen, nitrogen and sulfur, said heterocycle; or
- [d] R⁹ and R¹⁰ are both alkyl groups; or
- [e] R^9 and R^{10} together with N form a heterocycle containing 4-10 ring atoms which can incorporate up to one additional heteroatom selected from the group of N, O or S in the ring, wherein the heterocycle is optionally substituted with $(C_6$ -or C_{10})aryl, $(C_6$ -or C_{10})arylalkyl, or a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each such heteroaryl can be optionally substituted with one or more halo or $(C_1$ - C_3)alkylenedioxy; or [f] R^9 and R^{10} are both hydrogen; or
- d. Q is N, O or S;
- e. M is absent when Q is O or S;
- f. M is alkyl, vinyl or allyl, or independently the same as Y; and
- g. X is a pharmaceutically acceptable anion, or
- (C) a pharmaceutically acceptable salt of the compound,

wherein aryl or Ar can be substituted with, in addition to any substitutions specifically noted, one or more substituents selected from the group consisting of acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, (C_1-C_3) alkylenedioxy, alkylsulfonyl, alkylsulfinyl, ω -alkylenesulfonic acid, alkylthio, allyl, ArC(O)-, ArC(O)NH-, ArO-, Ar-, Aralkyl-, carboxy, carboxyalkyl, cycloalkyl, halo, trifluoromethyl, hydroxy, (C_2-C_6) hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid; and

wherein heterocycles, except those of Ar, can be substituted with, in addition to any substitutions specifically noted, acylamino, alkanoyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylsulfonyl, alkylsulfinyl, alkylthio, ArC(O)-, ArOAr-, carboxy, fluoro, fluoroalkyl, difluoroalkyl, hydroxy, mercapto, sulfamoyl, or trifluoromeihyl.

Claim 9. (Previously Presented) The method of claim 8, wherein Y is according to formula -CH(R⁵)R⁶.

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Claim 10. (Cancelled).

Claim 11. (Previously Presented) The method of claim 8, wherein Y is according to formula -CH(R⁵)-W-Rs.

Claim 12. (Cancelled).

Claim 13. (Previously Presented) The method of claim 1, wherein the compound of the formula I is 3-(2-phenyl-2-oxoethyl)-4,5-dimethylthiazolium chloride.

Claim 14. (Previously Presented) The method of claim 8, wherein the compound of the formula I is 3-(2-phenyl-2-oxoethyl)-4,5-dimethylthiazolium chloride.

Claim 15. (Previously Presented) The method of claim 1, wherein the cholinergic agent is pilocarpine.

Claim 16. (Previously Presented) The method of claim 1, wherein said compounds are administered intravenously.

Claim 17. (Previously Presented) The method of claim 1, wherein said compounds are administered intracamerally.